

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| S1 | 1 | "4965833".pn. | USPAT | OR | OFF | 2005/10/06 16:08 |
| S2 | 61 | (frequenc\$5 near2 shift\$5) same (mic\$1 or microphon\$5) same \$5speaker\$5 | USPAT | OR | OFF | 2005/10/06 16:11 |
| S3 | 61 | (frequenc\$5 near2 shift\$5) same (mic\$1 or microphon\$5) same \$5speaker\$5 | USPAT | OR | OFF | 2005/10/06 16:31 |
| S4 | 14 | (pitch\$5 near2 shift\$5) same (mic\$1 or microphon\$5) same \$5speaker\$5 | USPAT | OR | OFF | 2005/10/06 16:30 |
| S5 | 127 | (frequenc\$5 near2 shift\$5) same (mic\$1 or microphon\$5) same \$5speaker\$5 | US-PGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 08:27 |
| S6 | 14847 | (frequenc\$5 near2 shift\$5) and (feedback\$5 or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 08:37 |
| S7 | 3536 | (frequenc\$5 near2 shift\$5) same (feedback\$5 or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:00 |
| S9 | 1108 | S7 and (car\$2 or auto\$2 or automobile\$2 or limo\$5 or truck\$2 or taxi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 08:32 |
| S10 | 980 | S7 and (car\$2 or automobile\$2 or limo\$5 or truck\$2 or taxi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/20 09:05 |
| S11 | 420 | ((frequenc\$5 near2 shift\$5) same subtract\$5) and (feedback\$5 or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 08:35 |

| | | | | | | |
|-----|------|--|---|----|-----|------------------|
| S12 | 14 | ((frequenc\$5 near2 shift\$5) same subtract\$5) and (feedback\$5 or howl\$5) and ((mic\$1 or microphon\$5) same \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:22 |
| S13 | 632 | (frequenc\$5 near2 shift\$5) and (feedback\$5 or howl\$5) and ((mic\$1 or microphon\$5) same \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 13:29 |
| S14 | 349 | S13 and (car\$2 or automobile\$2 or limo\$5 or truck\$2 or taxi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 08:38 |
| S15 | 70 | (pitch\$5 near2 shift\$5) and (feedback\$5 or howl\$5) and ((mic\$1 or microphon\$5) same \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/07 13:29 |
| S16 | 18 | ((subtract\$5 with (frequenc\$5 or spectrum\$5)) near2 shift\$5) and (feedback\$5 or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:02 |
| S17 | 113 | (subtract\$5 with ((frequenc\$5 or spectrum\$5) near2 shift\$5)) and (feedback\$5 or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:05 |
| S18 | 123 | (subtract\$5 with ((frequenc\$5 or spectrum\$5) near2 shift\$5)) and (feedback\$5 or howl\$5 or (feed\$3 near2 back\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:21 |
| S19 | 2822 | ((("5" or five) near2 (hertz or hz)) and (feedback\$5 or howl\$5 or (feed\$3 near2 back\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:22 |

| | | | | | | |
|-----|------|--|---|----|-----|------------------|
| S20 | 413 | S19 and (\$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 10:47 |
| S21 | 90 | S20 and ("704"/\$.ccls. or "381"/\$.ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:26 |
| S22 | 807 | 381/86.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:27 |
| S23 | 15 | S22 and (((frequenc\$5 or spectrum\$5) near2 shift\$5) or ((single near2 sideband) or ssb)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:40 |
| S24 | 4 | 381/95.ccls. and (((frequenc\$5 or spectrum\$5) near2 shift\$5) or ((single near2 sideband) or ssb)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/25 09:22 |
| S25 | 1045 | "381"/\$.ccls. and (((frequenc\$5 or spectrum\$5) near2 shift\$5) or ((single near2 sideband) or ssb)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:45 |
| S26 | 326 | "381"/\$.ccls. and (((frequenc\$5 or spectrum\$5) near2 shift\$5) or ((single near2 sideband) or ssb)) and subtract\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:54 |
| S27 | 184 | "381"/\$.ccls. and (((frequenc\$5 or spectrum\$5) near2 shift\$5) or ((single near2 sideband) or ssb)) and subtract\$5 and (feedback\$5 or (feed\$3 near2 back\$2) or howl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 11:55 |

| | | | | | | |
|-----|-----|---|---|----|-----|------------------|
| S28 | 388 | subtract\$5 same (frequenc\$5 shift\$5) same first same second same (mic\$2 or microphone\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 14:07 |
| S29 | 105 | S28 and ("704"/\$.ccls. or "381"/\$.ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 13:58 |
| S30 | 16 | subtract\$5 same (frequenc\$5 near2 shift\$5) same first same second same (mic\$2 or microphone\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 14:43 |
| S31 | 0 | subtract\$5 with (rear near2 passenger\$5) with (front near2 passenger\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 14:44 |
| S32 | 3 | subtract\$5 with rear with passenger\$5 with front | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/19 15:01 |
| S33 | 669 | ((feedback\$5 or (feed\$3 near2 back\$2) or howl\$5) and (frequenc\$5 near2 shift\$5)).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/19 15:02 |
| S34 | 74 | S33 and (mic\$2 or microphone\$5 or \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/19 15:03 |
| S35 | 116 | S33 and (mic\$2 or microphone\$5 or \$5speaker\$5 or transducer\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/19 15:03 |

| | | | | | | |
|-----|------|--|---|----|-----|------------------|
| S36 | 535 | ((frequenc\$5 or spectrum\$5) near2 shift\$5) with subtract\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:30 |
| S37 | 70 | S36 and (mic\$2 or microphone\$5 or \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:31 |
| S38 | 123 | S36 and (feedback\$5 or howl\$5 or (feed\$3 near2 back\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:30 |
| S39 | 152 | S36 and (car\$2 or automobile\$2 or limo\$5 or truck\$2 or taxi\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/20 09:06 |
| S40 | 3866 | ((frequenc\$5 or spectrum\$5) near2 shift\$5) with differenc\$5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:42 |
| S41 | 1106 | S40 and (feedback\$5 or howl\$5 or (feed\$3 near2 back\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:30 |
| S42 | 239 | S41 and (mic\$2 or microphone\$5 or \$5speaker\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:34 |
| S43 | 90 | S40 and ("381"/\$.ccls. or "704"/\$. ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:44 |

| | | | | | | |
|-----|------|--|---|----|-----|------------------|
| S44 | 5191 | ((frequenc\$5 or spectrum\$5) near2 shift\$5) with (add\$3 or addition\$2 or sum\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:44 |
| S45 | 173 | S44 and ("381"/\$.ccls. or "704"/\$.ccls.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/24 12:44 |
| S46 | 286 | 381/93.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/25 09:27 |
| S47 | 23 | 381/93.ccls. and ((frequenc\$5 or spectrum\$5) near2 shift\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/25 09:30 |
| S48 | 22 | 381/95-96.ccls. and ((frequenc\$5 or spectrum\$5) near2 shift\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/25 09:30 |

Dialog DataStar[options](#)[logout](#)[feedback](#)[help](#)[databases](#)[easy search](#)**Advanced Search:****INSPEC - 1969 to date (INZZ)**[limit](#)

Search history:

| No. | Database | Search term | Info added since | Results | |
|-----|----------|--|------------------|---------|-----------------------------|
| 1 | INZZ | frequenc\$5 ADJ near2 ADJ shift\$5 | unrestricted | 0 | - |
| 2 | INZZ | frequenc\$5 ADJ shift\$5 | unrestricted | 16853 | show titles |
| 3 | INZZ | (frequenc\$5 OR spectrum\$5) ADJ shift\$5 | unrestricted | 17442 | show titles |
| 4 | INZZ | (frequenc\$5 OR spectrum\$5) ADJ shift\$5 AND (feedback\$5 OR howl\$5) | unrestricted | 581 | show titles |
| 5 | INZZ | (frequenc\$5 OR spectrum\$5) ADJ shift\$5 WITH (subtract\$5 OR difference\$5) | unrestricted | 231 | show titles |
| 6 | INZZ | (frequenc\$5 OR spectrum\$5) ADJ shift\$5 WITH (subtract\$5 OR difference\$5) AND (feedback\$5 OR howl\$5) | unrestricted | 8 | show titles |
| 7 | INZZ | (frequenc\$5 OR spectrum\$5) ADJ shift\$5 AND (feedback\$5 OR howl\$5) AND (mic\$2 OR microphone\$5 OR speaker\$5 OR loudspeaker\$5) | unrestricted | 11 | show titles |

[hide](#) | [delete all search steps...](#) | [delete individual search steps...](#)Enter your search term(s): [Search tips](#) ☐ Thesaurus mapping Information added since: or:
(YYYYMMDD)[search](#)

Select special search terms from the following list(s):

- ☒ Publication year
- ☒ Classification codes A: Physics, 0-1
- ☒ Classification codes A: Physics, 2-3

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

[Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Edit an existing query or
compose a new query in the
Search Query Display.

Tue, 25 Oct 2005, 11:04:01 AM EST

Search Query Display

[Run Search](#)[Reset](#)

Select a search number (#)
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

#1 (((frequency<or>spectrum)<near>shift)<sentence>
(subtract\$5<or>difference))<in>metadata)

#2 ((((((frequency<or>spectrum)<near>shift)<sentence>
(subtract\$5<or>difference))<in>metadata))<AND>
((feedback<or>howling)<in>metadata))

[Clear Session History](#)

Indexed by
 Inspec

[Help](#) [Contact Us](#) [Privacy & ;](#)

© Copyright 2005 IEEE -